

THE TWO-YEAR GRID

ERIC ANGELINI

Brussels, Belgium

In the rectangular grid below, the 21 number names from 0 through 20 each appear once, along with the eight additional number-names 30, 40, 50, 60, 70, 80, 90 and 100. Both the horizontal number names and the vertical ones add to 365, the number of days in a year. Furthermore, all number-names are connected, forming a single network. Can anyone construct a grid smaller than 16x17 in which all this is possible?

						F	I	F	T	E	E	N		E					
						O		O						F	I	V	E		
S	I	X				R		U				T		G					
I						T		R				H		H					
X			F	I	F	T	Y		T			S	I	X	T	Y			
T								E				R		E					
E			F	O	U	R		S	E	V	E	N	T	E	E	N			
E				N			T	E	N				E		N				
N	I	N	E					V		Z			E					E	
			I					E	L	E	V	E	N					I	
N	I	N	E	T	E	E	N		R			I						G	
			E		W			T	W	O		G			T			H	
			T	W	E	N	T	Y				H			H			T	
			Y		L								T	H	I	R	T	Y	
					V										E				
					S	E	V	E	N			H	U	N	D	R	E	D	